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MAY 2 9 1957

the be traced within

TORIT

 $\frac{dust}{collectors}$

buffing and polishing lint
leather dust
sawdust, chips and shavings
rubber dust
pharmaceutical powders
carbon dust
precious metal dust
cement, grain, and
many other dusts

fumes and gases from welding and other processes



CABINET CLOTH FILTER TYPES

for

catalog MANUFACTURING No. 39

St. Paul 2, Minnesota

why dust collectors are essential to industry

Dust shortens machine life. TORIT traps dust at its point of origin to keep bedways, saddles, slides and bearing surfaces clean. Machines last longer, and hold close tolerances better with less maintenance. Dust can also damage fine surfaces or other parts of your products. TORIT keeps your product free from this harmful dust. Clean air lets employees work more efficiently. Work areas are easier to keep clean, and stay better looking. TORIT dust collectors pay for themselves in these ways alone. They also salvage diamond dust, gold grindings, and other valuable dusts.

how Torit
self-contained
dust collectors save
you money

Different machines need different kinds of dust collectors. When each machine or group of machines has its own TORIT unit, the dust collector can be matched to the machine's needs. Sometimes only a few machines will be in operation in the shop at one time. Under these conditions, only the dust collectors for those machines need to be operating. This saves power. If machines are moved to a new location, the dust collector can be moved with them. When the plant expands, new dust collectors can be added as they are needed. You are not limited to the capacity of a central system, and your initial investment is low. When individual TORIT dust collectors are used, lint from buffing operations is kept separate from grinding dust. This eliminates possible fire hazards from sparks. Servicing of individual dust collectors does not interrupt the operation of other machines. You save heat too, because filtered air may be exhausted indoors.

who uses Torit dust collectors?

More than 35,000 TORIT dust collectors are now in use. Their uses range from small home workshops to the largest manufacturing plants in the country. TORIT units are working daily to add to the nation's industrial efficiency, and to employee comfort and health.

INDEX

	page		page
Why dust collectors are necessary	2	How they work	8
What type of dust collector is best	2	Operating features	
Who uses TORIT dust collectors	2	Construction features	
How various TORIT models are used	3	Description of TORIT cyclone models—	
Cabinet cloth filter types	3	Outdoor-exhausting, after-filter,	
How they work	3	disposable-filter	8, 9
Operating features	4	Specifications	
Description of TORIT cabinet models— High speed, low speed, special	4, 5	Optional equipment	
Optional equipment	5	Accessories	12, 13
Construction features	6	How to choose and install	14, 15
Specifications	6, 7	Exhausters and blowers	14, 15
Cyclone separator types	8	Who to call	16

what are the basic TORIT types?



for gritty dust: cabinet cloth filter types

The most widely-used TORIT units. The air is filtered inside the steel cabinet and then passes back into the room. This way, conditioned air is not lost outside the building. The filtered air can easily be exhausted outside the building if local regulations require it.



for bulky or sticky dust: cyclone separator types

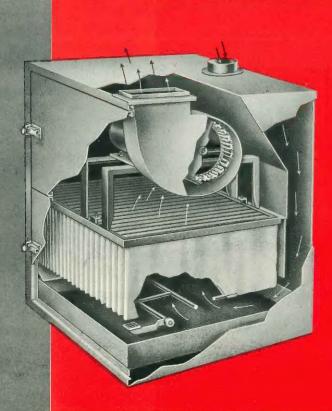
Used where filter-clogging dust or large quantities of dust are to be trapped. Centrifugal force precipitates all but the very finest dust particles. These may be vented outside the building, or trapped in an after-filter. When an after-filter is used, the clean air is recirculated indoors to save heat.



for fumes and gases: exhausters and blowers

Keeps work areas free from harmful or unpleasant fumes, such as welding and soldering fumes or heat treating gases.

CABINET CLOTH FILTER TYPES



Compact, self-contained units for use with all types of grinders, sanders, metal saws, etc. Capacity of standard models ranges from 160 to 2000 cubic feet per minute. Larger units can be built on special order, or several units can be used together. An entire plant can be equipped with TORIT cabinet type collectors. They are also ideal for expansion in plants where the present central dust collector system is already operating at full capacity.

how Torit cabinet cloth filter types operate

Dust-laden air is drawn into the cabinet from hoods surrounding grinding wheels or other dust sources. Heavy particles fall immediately into the dust tray under the filters. Finer dust particles are trapped on the outer, under side of the filters. Most of these fall into the dust tray when the machine is stopped. The rest of them can be shaken loose by the handle located outside the cabinet. Brushing the filters at regular intervals keeps the unit operating at top efficiency. Filtered air is drawn past the motor, which keeps it cool. Air may be exhausted directly into the room or vented outside building if local codes require it.

operating features of TORIT CABINET CLOTH FILTER TYPES

- COMPACT—Torit Dust Collectors are self-contained portable units. Motor, fan, fan housing and filters are mounted in compact steel cabinets. Careful engineering gives maximum filter area in the smallest possible space.
- EFFICIENT—Squirrel-cage blowers are mounted directly on the motor shaft for low power consumption. Spark-resistant cloth filters clean the air with minimum airflow resistance for maximum air volume and efficiency.
- FLEXIBLE—Torit units may be located under work benches, along walls, or directly behind machines for best use of space. Inlet locations may be chosen for most direct piping to machine, or changed for use with new machines.
- sheet metal pipe and fittings available from TORIT make installation easy. Change of location is simplified by unit construction. No structural alterations are necessary when installing TORIT units.
- EASY TO CLEAN—Dust that collects on the filters can be removed by shaking them with the lever located outside the cabinet. A special brush is provided for more thorough cleaning of the filters, once or twice a month.
- EASY TO OPERATE—Each
 TORIT dust collector can be wired
 through the starter of the machine
 that it serves. The collector then
 automatically starts and stops with
 the machine. This saves power.
- QUIET—Internal mounting of motor and blower reduces noise level of TORIT dust collectors. Careful design of blowers, filters and air passages keeps turbulence and noise level at a minimum. Low-speed models are exceptionally quiet.

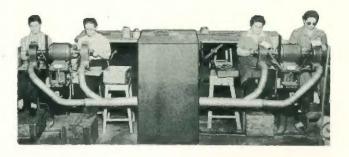


Model No. 66 For uses similar to the model 54 but where stronger suction is needed. Develops up to 50% more static pressure than model 54.

Model No. 54 For use with surface grinders with wheel sizes up to 7" x 1". Also for use with tool and cutter grinders and lathes involving small concentrations of dust.



STANDARD HIGH SPEED UNITS



Model No. 81 For double-end pedestal grinders up to 18" diameter, or single grinders up to 30" diameter. May be used with two smaller pedestal grinders or surface grinders if they are located close together. When used with double-end grinders larger than 18" diameter, only one wheel at a time should be used.

Model No. 83 For applications similar to models 64 and 75, but where unusually high static pressure is required.

LOW SPEED UNITS

NOTE: These units are intended for low-velocity uses, where quiet operation and high air volume are important. Best for use on light-duty work with intermittent operation. Inlet openings are larger than on the high-speed models due to lower air velocity.



Model No. 64 The most popular, versatile TORIT unit. Suitable for double-end pedestal grinders up to 10" diameter. May be used with single spindle disc grinders or sanders up to 18" diameter, or for other grinders, lathes and machine tools that produce average concentrations of dust.



Model No. 75 For uses similar to model 64 where greater air volume, velocity, or filter area is required. Moves 5 cubic feet of air per minute through each square foot of filter. This improves its efficiency, requires less frequent cleaning, and meets local ordnances which require a low ratio of air volume to filter area. On applications where a model 64 is ideal for average work, this model 75 is recommended for heavy-duty jobs involving the same machine.



Model No. 84 Recommended for jobs similar to model 81, but where greater air volume, velocity and static air pressure is needed for heavyduty work.

Model No. 122 Designed to handle heavy-duty continuous grinding, or other high dustvolume sources. Ideal for a double-end pedestal grinder in the 19" to 24" range where heavy-duty snag grinding is done. Dust storage capacity is 10 cubic feet. Filter area is 300 square feet. Air-flow-to-filter-area ratio is low— 5 cubic feet per minute per square foot of filter.



A TORIT No. 122 Dust Collector connected to a double-end disc grinder with two 26-inch wheels used continuously for heavy-duty grinding on quite large castings.

furnished with 1750 rpm motors

Model No. 52 For intermittent, light-duty work where quiet operation is important. Cabinet is the same as high-speed model 54, and handles about the same air volume.

Model No. 62 Used where greater air volume is required, but at a low static pressure. Cabinet is same as high-speed model 64, and handles about the same air volume.

Model No. 80 The largest low-speed cabinet model, where low air velocity and high air volume is required. Cabinet is the same as high-speed model 81, and handles about the same air volume.

special models and equipment

mountings are some of the modifications commonly made. 5

TORIT CABINET CLOTH FILTER TYPES



All cabinets are made of steel, and finished in durable gray enamel. Filters, motor and blowers are easily reached through removable doors. TORIT collectors operate smoothly and are of air-tight construction. One or more inlets can be furnished as needed. Motor and blower mounted in air stream for cool operation. Fine-woven cotton filters are chemically treated for spark resistance and are sealed against leakage. Manual starter with overload protection. Foot pedal or handle on side of cabinet for cleaning filters.

25 cycle belt-driven units

V-Belt drive maintains 3450 rpm fan speed for similar operating characteristics to high-speed 60 cycle models. Motors are 25 cycle, 220/440 volt, 3 phase, and are mounted on top of the cabinets. Available in Models 54-A, 64-A, and 81-A.

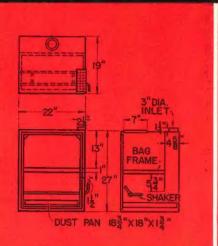
specifications

£-755	FILTERS	M	OTOR	FAN			CAB	INET	SI	HIPPIN	G
Unit No.	Area, Sq. Ft.	Н.р.	R.p.m.	Size In.	Over-al	I Dimensions—	Inches	Outlet Area—Inches	Dust Pan—Cu. In.	Weight,	
			10	III.	Wide	Deep	High			Pounds	
52	- 30	1/4	1725†	7-11/16 x 3	- 22	19	27	- 4 x7	675	160	•
54	30	1/3	3450†	7 x1	22	19	27	21/4 x 7	675	160	
54A	30	1/2	1425*	7 x1	24	19	36	21/4 x 7	675	225	9
62	60	1/2	1725†	9-3/16 x 3	22	24	33	41/8 x 9	750	270	
64	60	3/4	3450†	7-11/16 x 1½	22	24	33	3½ x 7	750	270	
64A	60	3/4	1425*	7-11/16 x 1½	24	24	44	31/8 x 7	750	350	
66	60	1/2	3450†	83/8 x 1	22	24	33 -	2½ x 8	750	270	
75	120	1	3450†	7-11/16 x 2½	22	25	44	3½ x 7¾	780	350	
80	150	- 1	1725†	9-15/16 x 5	28	28	49	6¼ x 11	1300	450	
81	150	11/2	3450†	7-11/16 x 3½	28	28	49	4½ x 7¾	1300	475	
81A	150	2	1425*	7-11/16 x 3½	30	28	62	4½ x 7¾	1300	550	
83	150	2	3450†	9-3/16 x 1½	28	28	49	2½ x 9½	1300	510	
84	150	3	3450†	9-3/16 x 2	. 28	28	49	4 x 9½	1300	510	
122	300	3	3450†	9-3/16 x 2	621/4	26	115	10 dia.	17280	1130	

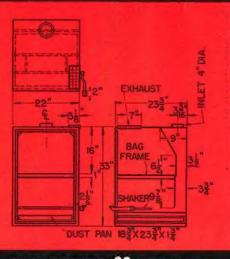
One I	nlet	Opera	ting
In	let 1	ests-	

Two Inlets Operating EACH Inlet Tests—

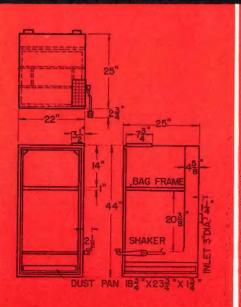
												10		
	Unit No.	Inlet Sizes in.	C.f.m.	Static Press., inches	Air Speed, f.p.m.	Inlet Sizes in.	C.f.m.	Static Press., inches	Air Speed, f.p.m.	No.	Dia. in.		Location	
	\square			(water)				(water)				Standard	Optional	
	52	4	250	1	3000	4	160	1/2	2000	2	4	top, 14" apart	either side at rear; back	
	54-54A	3	240	23/4	4800	-	-	-	-	1	3	top, rear, center .	back; either side at rear	
	62	-	_	_	_	4	250	1	3000	2	4	top, rear, 16" apart	either side at rear; back	
	62	6	500	1	3000	-	_	-	-	1	6	top or rear	_	
	64-64A	3	320	4	6500	3	250	3	5100	2	3	top, rear, 16" apart	both on back; one on each side at rear	
	64-64A	4	500	31/2	5700	_	-	_	-	1	4	_	on top, back, or either side	
	66	3	370	41/2	7500	-	_	- '	-	1	3	top, rear, center	either side at rear; anywhere on back	
	75	3	350	4¾	7600	3	300	3¾	6600	2	3	back 16" apart 20" up	either side at rear; top at rear; anywhere on back	
	75	4	500	3¾	5900	-	-	_	_	1	4	top, rear, center	back, either side at rear	
	80	6	650	1½	3500	6	500	1	3000	2	6	1 each side rear; 2 top rear or back	specify number, size and loca- tion of inlets	
	80	-	-	-	-	4	300	1½	3500	2	4	1 each side rear; 2 top, rear or back	specify number, size and loca- tion of inlets	
	81-81A	4	580	41/2	6500	4	465	3	5300	2	4	back 22" apart 20" up	either side at rear; top at rear; anywhere on back	
	81-81A	6	1000	3	5000	_	_	_	_	1	6		-	
	83	-	-	-	-	3	385	5¾	7800	2	3	-	specify number, size and loca- tion of inlets	
1	83	4	700	53/4	8000	_	_	_	_	1	4	_	_	
	84	4	650	5¾	7500	4	525	41/4	6000	2	4	back 22" apart 20" up	either side at rear; top at rear; anywhere on back	
	84	6	1100	41/4	6000	-	_	_	_	1	6	_	_	
	122	7	1500	3¾	5500	-	_	_	-	1	7	back, center 44" up	either side, center, 44" up	

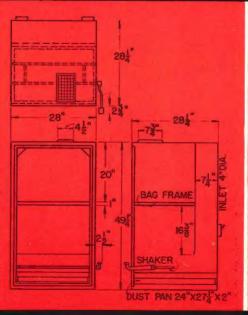


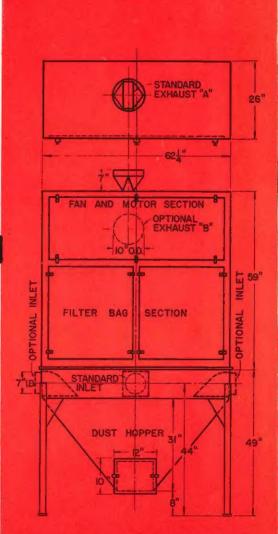
ALL SERIES 50 MODELS



ALL SERIES 60 MODELS







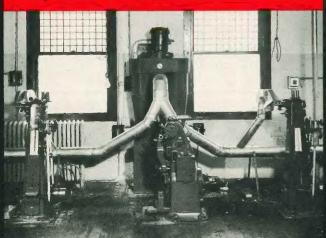
Compact, self-contained units for use with buffing wheels, or where large volumes of dust are created, as in woodworking. These units will handle from 260 to 5000 cubic feet per minute. Two or more units can be used together for greater capacities. Ideal for expansion in plants where present central system is already operating at full capacity. Especially effective when buffing compounds are used, since dust is precipitated by centrifugal force, and there are no filters to clog. Air may be exhausted outside building or passed through after-filters and recirculated indoors, thus saving heat.

ror cyclone separator types



FM SERIES (Models No. 12FM, 13FM, 18FM, 19FM and 219FM)

Outdoor exhausting types. Where undesirable fumes or obnoxious odors are present, or where local regulations require exhausting the air outside. Since as little as 5% of the dust remains in the exhausted air, this equipment is satisfactory in almost all localities.





how Torit cyclone separator types operate

Dust-laden air is drawn into top of cone from hoods surrounding dust source. Spiral baffles direct air into a whirlwind motion. Dust particles are precipitated out of the air stream by centrifugal force, and settle down through the cone to the dust reservoir below. As much as 95% of the dust is removed from the air in this way. The clean air is then drawn up through a squirrel-cage blower and exhausted outside the building or indoors through after-filters.

OPERATING FEATURES OF TORIT CYCLONE SEPARATORS

efficient—Up to 95% of the dust is precipitated by centrifugal action, without the use of filters. This unrestricted air flow and the use of formed baffles means low power consumption. Squirrelcage blower is mounted directly on motor shaft, and is designed for smooth, powerful air flow.

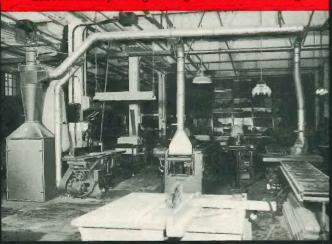
easy to clean—The standard dust reservoir has a pull-out drawer to make emptying easy. After-filter bags can be removed easily for cleaning. This is needed only occasionally.

easy to operate—Each TORIT cyclone separator can be wired through the starter of the machine it serves. The separator then automatically starts and stops with the machine. This saves power.

easy to install—Self-contained units mount against the wall or near the dust source for simple installation. Inlet and outlet connections can be rotated for shortest possible pipe connections. Unit can be exhausted indoors through after-filters, or outdoors.



FB SERIES (Models No. 12FB, 13FB, 18FB, 19FB and 219FB) Recirculating types. Where heated or conditioned air is to be saved. Air is recirculated indoors after passing through an after-filter bag.

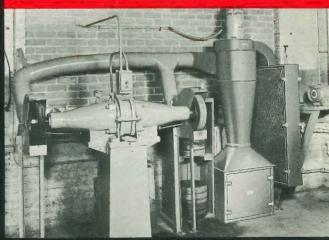




FMA SERIES (Models No. 12FMA, 18FMA, 18FMA, 19FMA and 219FMA)

Recirculating type. Disposable pads of glass

Recirculating type. Disposable pads of glass wool are mounted on both sides of the after-filter frame. Recommended where nature of dust makes it desirable to throw away and replace filter. When filters become clogged, they may be thrown away, and replacements easily inserted.



TORIT CYCLONE SEPARATOR MODELS



construction features

All cyclone models are made of welded steel, and finished in durable gray enamel. Endmounted motor and blower is detachable for servicing or relocation of outlet duct. Cones may be rotated on base for proper inlet location. Dust reservoir has a pull-out drawer for easy cleaning. TORIT separators operate smoothly and are of air-tight construction. Twin units use a common dust reservoir. Separators have manual starters with overload protection.

STORAGE SPACE (of Pullout Drawer in Square Bottom Reservoirs). Model Capacity Height Length Width Standard sizes 12 & 13 2 cu. ft. 17" 14" 15 18 & 19 4 cu. ft. 21" 23" 160 20" 41/2 cu. ft. 281/2" 151/2 Special Large Sizes* Series 18 or 19† 8 cu ft. 30" Series 219* 16 cu. ft. 261/2" 341/2 30" *Gther sizes available upon request. †Reservoir 24 x 24 x 42 *Reservoir 30 x 36 x 52" high

SPECIFICATIONS Standard Sizes inlet-one only Weight No. H.p. R.p.m. C.f.m. lbs. F.p.m. FM Units for outdoor exhaust 3/4 19 FM 440 FB and FMA Units for indoor recirculation 475 480 700 Fan Sizes Model No. Size, inches Model No. Size: Inches 9-15/16 x 3 13 & 18 91/8 x 11/2 219 9-15/16 x 2 **DIMENSIONS IN INCHES** G H **Outlet Dia** No. B D 2 & 13 FM 521/ 18 48 18 20 48 18 & 19 FM 641/2 20 69 18 & 19 FB 831/2 641/2 20 60 69 24 54 24 219 FM 60 FMA Units Approximately the same size as equivalent FB units

- Explosion-proof or other non-standard motors.
- Hopper bases.

Can be furnished on all models. Hopper makes unit easy to empty into cart or other special container. Figure 1 shows a No. 84 collector with a hopper base and a 4" pipe nipple and cap. Legs can be any practical length.

- Syntron-Mucon hopper valve. Easy emptying for collectors with hopper bases. 4", 6" and 8" size. Handles any grainy dust. Not recommended for sharp materials such as shavings from milling machines.
- Extra-large storage capacities.

Model No. 64—1 cu. ft. capacity dustpan. (Std. dustpan has 2/5 cu. ft. capacity), 3½ cu. ft. capacity dust drawer mounted in No. 75 cabinet.

Models No. 80, 81, 83, 84— $6\frac{3}{4}$ cu. ft. capacity dust drawer mounted in No. 602 cabinet. (Std. dustpan has $\frac{3}{4}$ cu. ft. capacity).

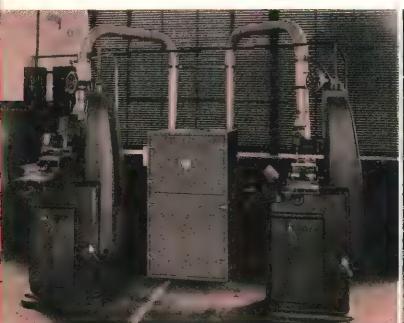
Models No. 18 and 19 FM, 18 and 19 FB, 18 and 19 FMA. (Std. base has 4 cu. ft. capacity). 8 cu. ft. capacity with dust drawer. 13 cu. ft. capacity with dust drawer. Casters available on above dust drawers.

Models No. 219 FM, 219 FB, 219 FMA. (Std. base has $4\frac{1}{2}$ cu. ft. capacity). 15 cu. ft. capacity drawer on casters. 20 cu. ft. capacity hopper base with plate valve. 22 cu. ft. capacity hopper base with 8' flow valve. 32 cu. ft. capacity base, no drawer. 80 cu. ft. capacity hopper base with plate valve.







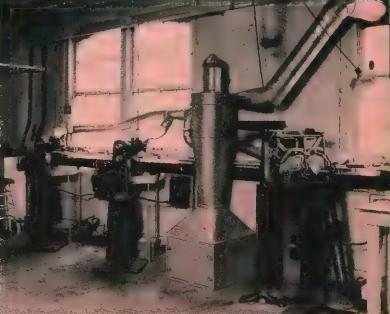


OPTIONAL

EQUIPMENT

for cabinet and

cyclone models



SUCTION TUBE ASSEMBLIES

For piping to wheels on surface, tool and cutter grinders and machines that cannot be properly hooded

Duck Covered Types

Adjusting nuts enable the operator to adjust the nozzle height vertically for accurate placing in the dust stream. Assemblies have hinged vertical and back rod dust nozzle sup-ports, counterweight, swivel inlet collar for 360° rotation, 4 feet duck-covered hose



No. 92—has No. 54 angular nozzle



Meral Hose Types

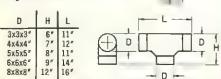
motal hose supports the dust nozzle. Adjust



No. 17—has No. 58 vertical nozzle

AIR FLOW TEES

Give better results than ordinary 90° tees.



STEEL PIPE

2, 3, 4, 5, 6, 8, 9, 10 and 12" diameters in 24" lengths. Galvanized.

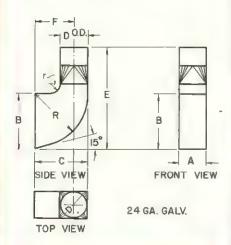
ACCESSORIES

VERTICAL DUST NOZZLES



Used on suction tube assemblies and grinders to catch dust at machine.

				Din	nensi	ons ir	inch	es
No.	Α	В	C	D	E	F	R	r
57 58 59 60	3 4 5 6	6 8 8 10	5½ 7 8 9	3 4 5 6	11 13½ 14 18	4½ 5 5½ 6	5½ 7 8 8	1 1½ 1½ 2



HOSE

Duck covered hose



Duck Covered Hose—More flexible than metal hose. Used where short radius bends or pipe line flexibility is needed. Wire insert prevents collapsing.

Dia.	L	Dia.	L	Dìa.	L.	
2" 3" 4" 6"	4' 4' 4' 4'	2* 3* 4* 6*	6' 6' 6' 8'	2" 3" 4"	8' 8' 8'	

Flexflyte—R—10

For use where additional abrasive resistance, low permeability is required. Superior to, but more costly than the duck covered hose shown above. Neoprene coated fibre glass, wire rein-forced, with straight cuff each end. Available on special order—prices quoted on request.

Clamps for duck covered or Flexflyte hose: No. 13-2"; No. 15-3"; No. 17-4".

Flexible metal hose



Flexible Metal Hose—Sometimes more suitable than standard metal pipe, 2, 3, 4, 5 or 6" inside diameter in any length up to 50'.

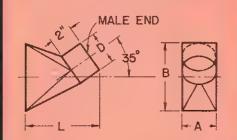
ANGULAR DUST NOZZLES

Attach to surface grinders, tool grinders, etc., that have means to catch dust. Arrangement for attaching nozzle to machine to be suc-tioned must be made.



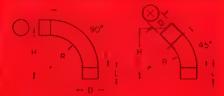
Dimensions in inches

No.	Mou	uth	Pîpe Co	nnection
140.	Α	В	D	L.
46 50 52 53 54 55 56	2 3 4 4 5 5	5 6 8 8 10	2 2 3 3 4 5	6% 6% 6% 8 7% 9% 10-13/16



LONG SWEEP ELBOWS

Give better esultations standard 307 all was



4e.					901	
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	٤			- 6	10 -	3
4	8		3	- 8	1.3	3
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8		26 .	634	16	26.00	610
4				18	29	619
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	24			24	光仙	634

	11	н	н
3	14		8
4	4 7		8 5
- 5		1.4	914



for all types of collectors and blowers

BRANCHES

No.	D ₁	D ₂	D ₃	E	L	難	N
12	3	2.	2	11/2	12%	51/4	31/6
14	A	2	2	136	13	7	31/4
16	A.	3	3	156	151/6	9	4
18	6	3	3	2	16	8	31/2
20	6	4	4	2	20	10	4
30	7	S	5	2	22	12	4
32	8	6	8	2	24	14%	4

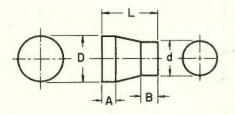
Special Branches

Di	D ₂	Do	Di	D ₂	Da.	Di	Da	Da
3	2	3	6	4	6	8	6	8
33444	3		6	5	3	00 00 00 00 00 00 00 00	7 8 8 8 8 8	4
4	4	3	6 6	6		8	8	3
4	3	4	6	6	4	8	8	4
4	4	3 4 4		6	6	8	8	5
5	3 4 73 4 73	3	8	4	6	8	8	6
5 5 6 6		3 5	8	4	6	8	8	8
6	5 3	6	8	5	6 5 8	9	5	8
6	4	3	8	5	8	9	8	4
			60000000	5 5 6	4	9	9	84345688458
			8	6	S	10	8	8

PIPE REDUCERS

When wheel hood connection is different from dust collector inlet, one of these reducers may be used. Or reducer may sometimes be needed in the piping.





Dimensions in inches

No.	D	d	L	A	В
61	3 I.D.	1½ O.D.	5	1½	11/2
62	3 O.D.	2 I.D.	45/8	11/4	11/4
63	3 O.D.	2½ I.D.	4%	11/4	11/2
64	4 I.D.	3 O.D.	5	11/4	11/2
65	4 O.D.	3 I.D.	5	13/4	11/2
67	5 I.D.	4 O.D.	61/2	2	2
68	5 O.D.	4 I.D.	61/2	2	2 2
69	6 I.D.	4 O.D.	7	2	2
70	6 O.D.	4 I.D.	7	2	2
71	6 I.D.	5 O.D.	71/2	2	2
72	6 I.D.	3 O.D.	8	2 2 2	2
72A	7 I.D.	6 O.D.	8	2	2 2 2 2
73	8 O.D.	6 I.D.	8	2	2

WHEEL HOODS

Built according to wheel diameter to house wheel thoroughly. Exhaust outlet provides smooth flow of dust-laden air into piping to dust collector. Top of hood is thrown back to change wheels. Hollow base has door at bottom. Made of 16 gauge metal for 38" spindle height.

Dimensions in inches

For		Hood			
Wheel Diam.	Width	Exh. Conn. O.D.	No.		
8	5	3	8A		
10	5	4	10A		
12	6	4	12A		
14	6	4	14A		
16	6	5	16A		
18	7	6	18A		



ADAPTER SLEEVES

For connecting flexible metal hose to standard pipe and pipe fittings.

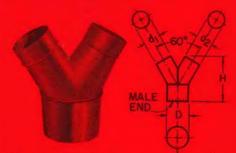
TICK D	Pe m	OA.	ngo.	
2"	O.D.	x	21/8"	I.D.
	O.D.			

4" O.D. x 41/8" I.D. 5" O.D. x 51/8" I.D. 6" O.D. x 61/8" I.D.



REDUCING "Y"

For converting one large pipe into two small pipes. May be had in various combinations. Those generally used are:



No.	D*	dif	d ₂ f	Н
38	3	2	2	9
40	4	2	2	9
43	4	3	3	10%
44	5	3	3	1252
45	6	3	3	1034
47	6	4		1136
91	7	5	5	1334
93	8	6	6	1434

NON-REDUCING "Y"

Used when a cut-out is employed to close one pipe while the other is open.

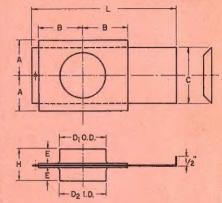
Dimensions in inches

No.	D	D ₁	D_2	No.	D	D ₁	D_2
72	2	2	2	77	5	5	5
74	3	3	3	78	6	6	6
76	4	4	4	79	8	8	8

CUT-OUTS

For cutting suction in one branch pipe not being used temporarily. The closed cutout will increase suction in other branch pipe or pipes. Cut-out has flange on each side for two ends of pipe to be connected to it.





Dimensions in inches

No.	Pipe	Size	A	В	С	E	Н	1			
NO.	D1*	Dat		D	,	E	"				
21	2	2	1-11/16	2-1/16	2-9/16	1	13/8	6-11/16			
21 22 24 25	3	3	23/8	3	4	2	21/8	9¾			
24	4	4	3	4	514	2		13			
25	5	5	31/2	31/2	6-3/16	2	2-11/16	123/4			
26	6	6	4	4	7-3/16	2		14¾			
26 28	8	8	51/2	51/2	95/8	1%	3%	20			
	Dutoid	la dia	motor #1	scide die	motor						

SPARK TRAP

Installed in piping be-tween grinder and dust collector to eliminate fire hazard from sparks. Baffles inside knock down sparks. Has cleanout door.

No. 4 for 3 or 4" pipe. No. 6 for 5 or 6" pipe. Specify pipe size.

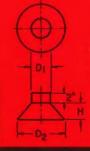


FUME HOOD

Used in fume exhauster installations. See



No.	Da	D ₂	H
115	.3	6	455
116	4	10	5
117	6	10	51/2
118	6	12	- 7.



CASTERS

Permits one collector to serve 2 or more grinders. (Optional equipment on all collec-tors.)

BALL JOINTS

Made of spun steel. Available in 3, 4, 5 or

TORIT

DUST COLLECTOR SELECTION INFORMATION

CABINET CLOTH FILTER TYPE APPLICATIONS

These units may be used in connection with either grinding wheels or buffing wheels—but separate collectors should be used for each type. Collecting dust from a grinding wheel with the same unit used to suction a rag buffing wheel is not recommended. This is due to the fact that sparks from grinding wheels are apt to ignite lint from rag buffing or polishing wheels accumulated in the dust collector and cause a fire. Neither are the cloth filter units recommended for use with rag wheels when buffing or polishing compound is used, inasmuch as sticky lint from such operations is apt to clog the filters and reduce suction to a point where it will be inadequate. Outside exhaust not used unless special conditions demand this.

Standard High Speed Motors—Most Torit Dust Collectors installed are those equipped with standard 3450 rpm motors, as they develop greater air velocity and static pressure which are advantageous on most grinding and buffing jobs, etc. Unless dual-voltage motors are essential, always specify single voltage motors.

Low Speed Motors—Units equipped with 1725 rpm motors are indicated where quiet operation is necessary and where low static pressure is satisfactory. It is advisable to consult the Torit factory before ordering 1725 rpm units, to determine their suitability for the requirements and to eliminate the danger of an unsatisfactory installation.

25 Cycle Frequency Motors—Torit Nos. 54-A, 64-A and 81-A dust collectors have motors rated 1425 rpm. These have greater horsepower than the standard Nos. 54, 64 and 81 in order to propel the extra load of the fan shafting assembly while maintaining the operating characteristics of the standard 3450 rpm motors.

CYCLONE SEPARATOR APPLICATIONS

On applications where there is a possibility that filters in the cabinet type units would be overloaded, or clog from sticky buffing lint, the use of a cyclone separator instead of a cloth filtering unit is advisable. Also cyclone separators are recommended for applications involving large volumes of dust, as in connection with woodworking machinery. The performance characteristics of this type afford unusually high collection efficiency for both coarse and fine particles. This type separator is widely adaptable to many conditions since one model recirculates the air indoors, the other exhausts it outdoors. Motors are rated 3450 rpm. See pages 8-11 for further applications.

EXHAUSTERS



For removing fumes, odors, gases, etc., as from welding, soldering, metallizing and galvanizing.

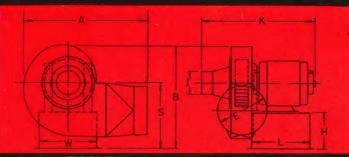
BLOWERS



These Torit Blowers are designed for use in drying, cooling, or supplying a circulation of air.

INLET SPECIFICATIONS

Torit Cabinet Type Dust Collectors are so designed that inlets (to which piping is connected) may be placed on either side panel at the rear, on the top panel at the rear, or anywhere on the back panel. Inlets in cyclone type may also be varied to suit the condition. The tables on pages 6 and 7 show maximum permissible inlet areas for each cabinet unit. The operating characteristics quoted are net, at the inlet with new filters. All suction losses due to resistance to air movement inside the cabinet (or cyclone) are accounted for. Study the installation in mind and specify on your order inlet locations that will afford most convenient piping connections from your grinder or other dust source.



	Jan 3.	SPE	CIF	ICAT	IONS					O I N	IEN	ISI	O N	S I	N	IN	СН	ES	
Urit No.	H.p.	otor R.p.m.	Size Intake	Size Outlet	Intake S.P.	Cap. C.f.m.	Intake Air Vel. F.p.m.	Unit No.	A	В	0. D.	s	Base No.	W	L	Н	1 1. D.	K	Fan Sia
304 306 308 312 318 320 338 340 346 348	½ ½ ½ 1 3 3 5 5	1725 3450 1725 3450 1725 3450 1725 3450 1725 3450	4" 3" 6" 3" 8" 4" 10" 6" 12" 7"	6" 4" 8" 6" 10" 5" 12" 8" 12"	2" 81/4" 1.5" 5.5" 2" 6" 2.2" 4.4" 2" 7.5"	350 340 685 350 1750 675 2600 1300 4000 2700	4000 7000 3500 7150 5000 7750 4770 6600 5100 10000	304 306 308 312 318 320 338 340 346 348	201/8 17-1/16 211/4 17-7/16 251/4 20-9/16 291/4 211/4 297/6 211/4	15¼ 14¼ 17¼ 14¼ 19¼ 16¼ 23¼ 21½ 24½ 21½	6 4 8 6 10 6 12 8 12 8	9½ 9½ 10½ 9½ 12 10½ 14½ 14½ 14½ 14½	312 312 320 312 318 320 338 338 346 338	8 10 8 11 10 12 12 14 12	8 8 10 8 11 10 14 14 14 16 14	6 6 6 6 7 6 9 9 9	4 3 6 3 8 4 10 6 12 7	16¼ 16¾ 19 16¾ 19¾ 18¾ 21¾ 21¾ 21¾ 28¾ 21¾	7-11/16 6¼ x 2 9-3/16 x 7 x 1½ 9-15/16 8¾ x 1¼ 12-3/16 x 9-3/16 x 9-3/16 x

Standard Equipment Consists of meter, fan and housing mounted on a base with switch.

Construction—Housings are made of sheet metal reported on a sheet steel base. Fans are squirrel-cage type. Air intake is on side (in center) of housing. Exhaust may be had in any position specified.

A	К
	S B

10																			
			SPEC	IFICA	TIONS	5-7-1			200	אוכ	IEN	ISI	ON	S	N	IN	CH	ES	37 000
	Unit	Mi	otor	Size	0" Air Del.	0" S. P.	Outlet Air Vel.	Unit			E		Base	7					1 0
	No.	Нр.	Rpm.	Outlet	S. P.	Cfm.	Fpm.	- No.	A	В	0. D.	S	No.	W	L	H	1	K.	Fan Size
	104 108	1/4 1/6	1725 1725	6" 6"	1.4° 1.5°	560 880	2850 4500	104	201/8	14%	6	91/2	312 320	8	8 10	6	6	121/4	7-11/16 x
	112	1/2	3450 1725	4" o"	3.75*	565 1275	6500 3650	112	17-1/16	141/4	4	91/2	312	8	8	6	45/8	123/4	6¼ x 2
Ţ	120	î	3450	5°	5"	850	6300	120	21% 18%	18 15%	8 5	101/8	320 320	10 10	10	6	53/8	151/4	9-3/16 x 4 7 x 2
1	132 138	1½ 3	3450 1725	12**	4.50	1150 2200	5900 4000	132 138	18% 29%	161/4	6 12	141/2	320 338	10 12	10 14	6 9	53/8 101/2	15½	7 x 2½ 12-3/16 x 3
	146	5	1725	12"	4.75"	4000	5100	146	29%	241/2	12	151/4	346	14	16	9	101/2	23	12-3/16)
	S			-0			4										100		- 10

FILTER CLOTH

Cabinet type units have finely woven, chemically treated, spark resistant cotton cloth filters. FB cyclone separators have woven wool after-filters. Special filters are available for both styles.

PIPING

Small-diameter piping will increase air velocity and static pressure, but will reduce air volume. When two or more wheels are suctioned through pipes branching off a "header" pipe, the diameter areas of the branch pipes should not exceed that of the header. Sharp elbows should be avoided—each one reduces suction about 15%.

PIPE SELECTION TABLE

	Ai	rea		Circumference							
Diam. Inches	Square Inches	Square Feet	Inches	Feet and Decimals	Feet	and Inches					
1	.785	.0054	3.1416	.2618	0	31/6					
2	3.14	.0218	6.28	.5236	0	6¼					
3	7.07	.0491	9.42	.7854	0	9-7/16					
4	12.57	.0873	12.57	1.047	1	0-9/16					
5	19.63	.1364	15.71	1.309	1	3-11/16					
6 7	28.27	.1964	18.85	1.571	1	6%					
	38.48	.2673	21.99	1.833	- 1	10					
8	50.27	.3491	25.13	2.094	2	13/4					
9	63.62	.4418	28.27	2,356	2	41/4					
10	78.54	.5454	31.42	2.618	2	7-7/16					
11	95.03	.6680	34.56	2.880	2	10-9/16					
12	113.1	.7854	37.70	3.142	3	1%					
13	132.7	.9218	40.84	3.403	3	45/8					
14	153.9	1.069	43.98	3.665	3	8					
15	176.7	1.227	47.12	3.927	3	111/4					
16	201.0	1.396	50.26	4.189	4	21/4					
17	228.9	1.576	53.41	4.451	4	53/8					
18	254.4	1.767	56.55	4.712	4	83/2					
19	283.5	1.969	59.69	4.974	14	11%					
20	314.1	2.182	62.83	5.236	5	234 15					

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